



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80E1A2 BYPASS RATIO: 5.1
 UNIQUE ID NUMBER: 1GE033 PRESSURE RATIO (π_{00}): 33.1
 COMBUSTOR:
 ENGINE TYPE: TF RATED THRUST (F_{00}) (kN): 287.0

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	15.3	61.9	62.1	11.6
AS % OF ORIGINAL LIMIT	78.2	52.4	58.5	65.5
AS % OF CAEP/2 LIMIT (NO _x)			73.1	
AS % OF CAEP/4 LIMIT (NO _x)			84.8	
AS % OF CAEP/6 LIMIT (NO _x)			95.3	
AS % OF CAEP/8 LIMIT (NO _x)			110.3	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	2.767	0.05	0.38	39.29	9.9
CLIMB OUT	85	2.2	2.245	0.07	0.34	28.02	7.2
APPROACH	30	4.0	0.724	0.14	1.61	9.91	0.0
IDLE	7	26.0	0.228	9.37	42.67	4.53	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			942	3384	15602	16203	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				11.8	54.3	56.4	9.9
SIGMA (D _p /F ₀₀ in g/kN, or SN)				4.8	6.2	1.3	2.8
RANGE (D _p /F ₀₀ in g/kN, or SN)				7.4-16	46.3-57.3	54.7-57.3	7.5-12.7

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.7-98
TEMPERATURE (K)	292-296
ABS HUMIDITY (kg/kg)	0.012-0.015

FUEL

SPEC	Jet A
H/C	1.89
AROM (%)	16.4

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: CF6 Eval Engineering
 TEST LOCATION: Sites IIIC & IIID, Peebles Test Facility
 TEST DATES: 08/06/1992-04/08/1992

NO_x REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
x	2.3.2 d) (CAEP/6)
	2.3.2 e) (CAEP/8)

REMARKS

1. Ref GE Report R90AEB188.
2. Engine S/N's 810-101/1 and 810-104/1.
3. Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.
4. NO_x levels in accordance with Part III, Chapter 2, 2.3.2 d) (CAEP/6)

Compliance with Fuel Venting requirements: -

('x' if complies, 'PR' if pre-regulation, '-' if information is not available)